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1 Image and video digital libraries: Generating fuzzy semantic metadata describing spatial relations from images using the R-histogram
Yuhang Wang, Fillia Makedon, James Ford, Li Shen, Dina Goldin
June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries JCDL '04**
Publisher: ACM Press

Full text available: 🗎 pdf(193.62 KB)   Additional Information: full citation, abstract, references, citings, index terms

Automatic generation of semantic metadata describing spatial relations is highly desirable for image digital libraries Relative spatial relations between objects in an image convey important information about the image. Because the perception of spatial relations is subjective, we propose a novel framework for automatic metadata generation based on fuzzy k-NN classification that generates fuzzy semantic metadata describing spatial relations between objects in an image. For each pair of ob ...

Keywords: k-nearest neighbor rule, image digital library, metadata, prototype selection, r-histogram, spatial relations

2 Technical Papers: CREAM: creating relational metadata with a component-based, ontology-driven annotation framework
Siegfried Handschuh, Steffen Staab, Alexander Maedche
October 2001 **Proceedings of the 1st international conference on Knowledge capture K-CAP '01**
Publisher: ACM Press

Full text available: 🗎 pdf(270.14 KB)   Additional Information: full citation, abstract, references, citings, index terms

Richly interlinked, machine-understandable data constitutes the basis for the Semantic Web. Annotating web documents is one of the major techniques for creating metadata on the Web. However, annotation tools so far are restricted in their capabilities of providing richly interlinked and truely machine-understandable data. They basically allow the user to annotate with plain text according to a template structure, such as Dublin Core. We here present CREAM (Creating RElational, Annotation-based M ...

Keywords: DAML+OIL, RDF, annotations, markup, metadata, ontology, semantic web

3 Automatic metadata creation: Automated semantic annotation and retrieval based on sharable ontology and case-based learning techniques

Von-Wun Soo, Chen-Yu Lee, Chung-Cheng Li, Shu Lei Chen, Ching-chih Chen
May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries JCDL '03**
Publisher: IEEE Computer Society

Full text available: pdf(910.69 KB)   Additional Information: full citation, abstract, references, citings, index terms

Effective information retrieval (IR) using domain knowledge and semantics is one of the major challenges in IR. In this paper we propose a framework that can facilitate image retrieval based on a sharable domain ontology and thesaurus. In particular, case-based learning (CBL) using a natural language phrase parser is proposed to convert a natural language query into resource description framework (RDF) format, a semantic-web standard of metadata description that supports machine readable semanti ...

4 Prefetch injection based on hardware monitoring and object metadata

Ali-Reza Adl-Tabatabai, Richard L. Hudson, Mauricio J. Serrano, Sreenivas Subramoney
June 2004 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2004 conference on Programming language design and implementation PLDI '04**, Volume 39 Issue 6
Publisher: ACM Press

Full text available: pdf(288.00 KB)   Additional Information: full citation, abstract, references, citings, index terms

Cache miss stalls hurt performance because of the large gap between memory and processor speeds - for example, the popular server benchmark SPEC JBB2000 spends 45% of its cycles stalled waiting for memory requests on the Itanium® 2 processor. Traversing linked data structures causes a large portion of these stalls. Prefetching for linked data structures remains a major challenge because serial data dependencies between elements in a linked data structure preclude the timely materialization ...

Keywords: cache misses, compiler optimization, garbage collection, prefetching, profile-guided optimization, virtual machines

5 Mobile applications: Metadata creation system for mobile images

Risto Sarvas, Erick Herrarte, Anita Wilhelm, Marc Davis
June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04**
Publisher: ACM Press

Full text available: pdf(564.05 KB)   Additional Information: full citation, abstract, references, citings, index terms

The amount of personal digital media is increasing, and managing it has become a pressing problem. Effective management of media content is not possible without content-related metadata. In this paper we describe a content metadata creation process for images taken with a mobile phone. The design goals were to automate the creation of image content metadata by leveraging automatically available contextual metadata on the mobile phone, to use similarity processing algorithms for reusing shared me ...

Keywords: automated content metadata, content-based image retrieval, digital image management, mobile camera phones, wireless multimedia applications

6 Languages & Authoring for the Semnatic Web: Authoring and annotation of web pages in CREAM

Siegfried Handschuh, Steffen Staab
May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**
Publisher: ACM Press

Full text available: 📄 pdf(764.65 KB)　　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Richly interlinked, machine-understandable data constitute the basis for the Semantic Web. We provide a framework, CREAM, that allows for creation of metadata. While the annotation mode of CREAM allows to create metadata for existing web pages, the authoring mode lets authors create metadata --- almost for free --- while putting together the content of a page.As a particularity of our framework, CREAM allows to create *relational metadata*, i.e. metadata that instantiate interrelated defini ...

Keywords: RDF, annotation, metadata, semanticWeb

7　Annotea: an open RDF infrastructure for shared Web annotations
José Kahan, Marja-Ritta Koivunen
April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**
Publisher: ACM Press
Full text available: 📄 pdf(271.46 KB)　Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: RDF, World-Wide Web, XML, XPointer, annotations, metadata, semantic web

8　Brave new topics - session 2: from context to content: leveraging contextual metadata to infer multimedia content: Context for semantic metadata
Kenneth Haase
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia MULTIMEDIA '04**
Publisher: ACM Press

Full text available: 📄 pdf(530.90 KB)　　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This article argues for the growing importance of quality metadata and the equation of that quality with precision and semantic grounding. Such semantic grounding requires metadata that derives from intentional human intervention as well as mechanistic measurement of content media. In both cases, one chief problem in the automatic generation of semantic metadata is ambiguity leading to the overgeneration of inaccurate annotations. We look at a particular richly annotated image collection to s ...

Keywords: context, disambiguation, information retrieval, metadata, multimedia databases

9　Annotations: Advene: active reading through hypervideo
Olivier Aubert, Yannick Prié
September 2005 **Proceedings of the sixteenth ACM conference on Hypertext and hypermedia HYPERTEXT '05**
Publisher: ACM Press
Full text available: 📄 pdf(665.67 KB)　　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Active reading and hypermedia usage are an integral part of scholar daily practices, but

the full exploitation of their potentialities still lies far ahead. In the search for new methods and tools, we focus in this article on the use of audiovisual material in a scholar context. One of the results of active reading applied to audiovisual material can be hypervideos, that we define as views on audiovisual documents associated with an annotation structure. The notion of hypervideo is useful to ana ...

Keywords: advene, annotation, audiovisual information visualisation, document template, hypervideo, sharing, time and synchronisation

10 Late breaking result papers: Photo annotation on a camera phone

Anita Wilhelm, Yuri Takhteyev, Risto Sarvas, Nancy Van House, Marc Davis
April 2004 **CHI '04 extended abstracts on Human factors in computing systems CHI '04**
Publisher: ACM Press

Full text available: pdf(290.52 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper we describe a system that allows users to annotate digital photos at the time of capture. The system uses camera phones with a lightweight client application and a server to store the images and metadata and assists the user in annotation on the camera phone by providing guesses about the location and content of the photos. By conducting user interface testing, surveys, and focus groups we were able to evaluate the usability of this system and uncover usage patterns and motivations ...

Keywords: automated content metadata, digital image management, mobile camera phones, user experience, user motivation, wireless multimedia applications

11 Brave new topics - session 2: from context to content: leveraging contextual metadata to infer multimedia content: From context to content: leveraging context to infer media metadata

Marc Davis, Simon King, Nathan Good, Risto Sarvas
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia MULTIMEDIA '04**
Publisher: ACM Press

Full text available: pdf(373.07 KB)   Additional Information: full citation, abstract, references, citings, index terms

The recent popularity of mobile camera phones allows for new opportunities to gather important metadata at the point of capture. This paper describes a method for generating metadata for photos using spatial, temporal, and social context. We describe a system we implemented for inferring location information for pictures taken with camera phones and its performance evaluation. We propose that leveraging contextual metadata at the point of capture can address the problems of the semantic and s ...

Keywords: content-based image retrieval, context-to-content inference, contextual metadata, location-based services, mobile camera phones, wireless multimedia applications

12 The development of a video metadata authoring and browsing system in XML

Andrew Yao, Jesse Jin
December 2000 **Selected papers from the Pan-Sydney workshop on Visualisation - Volume 2 VIP '00**
Publisher: Australian Computer Society, Inc.

Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(1.04 MB)   terms

Facing a large amount of rich visual video information, conventional video search techniques such as fast forward/rewind are no longer sufficient. Users want to be able to browse, to be selective at what they see just like how they have accessed textual information. This creates a problem because raw video bits do not possess the same user-level information as text and thus are not directly search-able in the same way. Consequently, video needs to be retrieved and indexed through its semantic co ...

13 Regular contributions: Community annotation and remix: a research platform and pilot deployment

Ryan Shaw, Patrick Schmitz
October 2006 **Proceedings of the 1st ACM international workshop on Human-centered multimedia HCM '06**
Publisher: ACM Press
Full text available: pdf(1.68 MB)   Additional Information: full citation, abstract, references, index terms

We present a platform for community-supported media annotation and remix, including a pilot deployment with a major film festival. The platform was well received by users as fun and easy to use. An analysis of the resulting data yielded insights into user behavior. Completed remixes exhibited a range of genres, with over a third showing thematic unity and a quarter showing some attempt at narrative. Remixes were often complex, using many short segments taken from various source media. Reuse of s ...

Keywords: HCM, UGC, community media, human-centered multimedia, remix, tagging, video annotation

14 Spoken content metadata and MPEG-7

J. P. A. Charlesworth, P. N. Garner
November 2000 **Proceedings of the 2000 ACM workshops on Multimedia MULTIMEDIA '00**
Publisher: ACM Press
Full text available: pdf(474.43 KB)   Additional Information: full citation, abstract, references, index terms

The words spoken in an audio stream form an obvious descriptor essential to most audio-visual metadata standards. When derived using automatic speech recognition systems, the spoken content fits into neither low-level (representative) nor high-level (semantic) metadata categories. This results in difficulties in creating a representation that can support both interoperability between different extraction and application utilities while retaining robustness to the limitations of the extraction ...

Keywords: MPEG-7, automatic speech recognition, interoperability, robust retrieval, spoken content, spoken document retrieval

15 Combining RDF and XML schemas to enhance interoperability between metadata application profiles

Jane Hunter, Carl Lagoze
April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**
Publisher: ACM Press
Full text available: pdf(525.04 KB)   Additional Information: full citation, references, citings, index terms

Keywords: RDF, XML, XSLT, interoperability, metadata, schema

16 Establishing the semantic web 1: SemTag and seeker: bootstrapping the semantic web via automated semantic annotation

Stephen Dill, Nadav Eiron, David Gibson, Daniel Gruhl, R. Guha, Anant Jhingran, Tapas Kanungo, Sridhar Rajagopalan, Andrew Tomkins, John A. Tomlin, Jason Y. Zien

May 2003 **Proceedings of the 12th international conference on World Wide Web WWW '03**

Publisher: ACM Press

Full text available: 📄 pdf(178.36 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes Seeker, a platform for large-scale text analytics, and SemTag, an application written on the platform to perform automated semantic tagging of large corpora. We apply SemTag to a collection of approximately 264 million web pages, and generate approximately 434 million automatically disambiguated semantic tags, published to the web as a label bureau providing metadata regarding the 434 million annotations. To our knowledge, this is the largest scale semantic tagging effort to ...

Keywords: automated semantic tagging, data mining, information retrieval, large text datasets, text analytics

17 Content 6: multimodal processing: Multimodal metadata fusion using causal strength

Yi Wu, Edward Y. Chang, Belle L. Tseng

November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**

Publisher: ACM Press

Full text available: 📄 pdf(541.39 KB)   Additional Information: full citation, abstract, references, index terms

We propose a probabilistic framework that uses influence diagrams to fuse metadata of multiple modalities for photo annotation. We fuse contextual information (location, time, and camera parameters), visual content (holistic and local perceptual features), and semantic ontology in a synergistic way. We use causal strengths to encode causalities between variables, and between variables and semantic labels. Through analytical and empirical studies, we demonstrate that our fusion approach can achie ...

Keywords: causal strength, influence diagram, multimodal fusion, photo annotation

18 Supporting personalization: Supporting personal collections across digital libraries in spatial hypertext

Frank M. Shipman, Haowei Hsieh, J. Michael Moore, Anna Zacchi

June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries JCDL '04**

Publisher: ACM Press

Full text available: 📄 pdf(2.38 MB)   Additional Information: full citation, abstract, references, citings, index terms

Creating, maintaining, or using a digital library requires the manipulation of digital documents. Information workspaces provide a visual representation allowing users to collect, organize, annotate, and author information. The Visual Knowledge Builder(VKB) helps users access, collect, annotate, and combine materials from digital libraries and other sources into a personal information workspace VKB has been enhanced to include direct search interfaces for NSDL and Google. Users create a visualiz ...

Keywords: collection organization, incremental formalization, information triage,

information visualization, metadata, spatial hypertext

19 <u>Video retrieval: The Family Video Archive: an annotation and browsing environment</u>
<u>for home movies</u>
Gregory D. Abowd, Matthias Gauger, Andreas Lachenmann
November 2003 **Proceedings of the 5th ACM SIGMM international workshop on**
Multimedia information retrieval MIR '03
Publisher: ACM Press

Full text available: pdf(447.13 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>
<u>terms</u>

We present the Family Video Archive as a tool to give consumers the ability to annotate
and browse large collections of informal family movies. The informal nature of home
movies makes it difficult to use fully-automated techniques for scene detection and
annotation. Our system explores the symbiosis between automated and manual
techniques for annotation. We also explore the use of a zooming interaction paradigm for
browsing and filtering large collections of video scenes.

Keywords: home movies, video annotation, zooming user interfaces

20 <u>Establishing the semantic web 11: On deep annotation</u>
Siegfried Handschuh, Steffen Staab, Raphael Volz
May 2003 **Proceedings of the 12th international conference on World Wide Web**
WWW '03
Publisher: ACM Press

Full text available: pdf(389.51 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>
<u>terms</u>

The success of the Semantic Web crucially depends on the easy creation, integration and
use of semantic data. For this purpose, we consider an integration scenario that defies
core assumptions of current metadata construction methods. We describe a framework of
metadata creation when web pages are generated from a database and the database
owner is cooperatively participating in the Semantic Web. This leads us to the definition of
ontology mapping rules by manual semantic annotation and the usag ...

Keywords: annotation, information integration, mapping and merging, metadata,
semantic web, wrapping

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1 Combining RDF and XML schemas to enhance interoperability between metadata application profiles   ◼
Jane Hunter, Carl Lagoze
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Publisher: ACM Press
Full text available: 📄 pdf(525.04 KB)   Additional Information: full citation, references, citings, index terms

Keywords: RDF, XML, XSLT, interoperability, metadata, schema

2 Annotea: an open RDF infrastructure for shared Web annotations   ▬
José Kahan, Marja-Ritta Koivunen
April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**
Publisher: ACM Press
Full text available: 📄 pdf(271.46 KB)   Additional Information: full citation, references, citings, index terms

Keywords: RDF, World-Wide Web, XML, XPointer, annotations, metadata, semantic web

3 Image and video digital libraries: Generating fuzzy semantic metadata describing spatial relations from images using the R-histogram   ▬
Yuhang Wang, Fillia Makedon, James Ford, Li Shen, Dina Goldin
June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries JCDL '04**
Publisher: ACM Press
Full text available: 📄 pdf(193.62 KB)   Additional Information: full citation, abstract, references, citings, index terms

Automatic generation of semantic metadata describing spatial relations is highly desirable for image digital libraries Relative spatial relations between objects in an image convey important information about the image. Because the perception of spatial relations is subjective, we propose a novel framework for automatic metadata generation based on

fuzzy *k*-NN classification that generates fuzzy semantic metadata describing spatial relations between objects in an image. For each pair of ob ...

Keywords: *k*-nearest neighbor rule, image digital library, metadata, prototype selection, r-histogram, spatial relations

4   Annotations: Advene: active reading through hypervideo
Olivier Aubert, Yannick Prié
September 2005 **Proceedings of the sixteenth ACM conference on Hypertext and hypermedia HYPERTEXT '05**
Publisher: ACM Press

Full text available: pdf(665.67 KB)   Additional Information: full citation, abstract, references, citings, index terms

Active reading and hypermedia usage are an integral part of scholar daily practices, but the full exploitation of their potentialities still lies far ahead. In the search for new methods and tools, we focus in this article on the use of audiovisual material in a scholar context. One of the results of active reading applied to audiovisual material can be hypervideos, that we define as views on audiovisual documents associated with an annotation structure. The notion of hypervideo is useful to ana ...

Keywords: advene, annotation, audiovisual information visualisation, document template, hypervideo, sharing, time and synchronisation

5   Contributed articles: Resource description framework: metadata and its applications
K. Selçuk Candan, Huan Liu, Reshma Suvarna
July 2001   **ACM SIGKDD Explorations Newsletter**, Volume 3 Issue 1
Publisher: ACM Press
Full text available: pdf(1.02 MB)   Additional Information: full citation, abstract, references, citings

Universality, the property of the Web that makes it the largest data and information source in the world, is also the property behind the lack of a uniform organization scheme that would allow easy access to data and information. A semantic web, wherein different applications and Web sites can exchange information and hence exploit Web data and information to their full potential, requires the information about Web resources to be represented in a detailed and structured manner. Resource Descrip ...

Keywords: Resource Description Framework (RDF), Web, XML, metadata, semantic web

6   Understanding accessibility: A Semantic-web based framework for developing applications to improve accessibility in the WWW
Christos Kouroupetroglou, Michail Salampasis, Athanasios Manitsaris
May 2006   **Proceedings of the 2006 international cross-disciplinary workshop on Web accessibility (W4A): Building the mobile web: rediscovering accessibility? W4A**
Publisher: ACM Press
Full text available: pdf(665.97 KB)   Additional Information: full citation, abstract, references, index terms

One of the biggest issues the World Wide Web (WWW) community has to overcome is accessibility for all. The rapid expansion of the WWW using problematic web authoring practices, together with the dominance of the desktop metaphor in web page design has raised many WWW accessibility problems for people with disabilities. In this paper we present a what may be termed as a "Semantic Web application framework" which allows different applications to be designed and developed for improving accessibilit ...

Keywords: RDF, accessibility, information seeking, metadata, semantic web, voice browser

7 A Metadata Catalog Service for Data Intensive Applications

Gurmeet Singh, Shishir Bharathi, Ann Chervenak, Ewa Deelman, Carl Kesselman, Mary Manohar, Sonal Patil, Laura Pearlman

November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing SC '03**

Publisher: IEEE Computer Society

Full text available: pdf(178.25 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>

Advances in computational, storage and network technologies as well as middle ware such as the Globus Toolkit allow scientists to expand the sophistication and scope of data-intensive applications. These applications produce and analyze terabytes and petabytes of data that are distributed in millions of files or objects. To manage these large data sets efficiently, metadata or descriptive information about the data needs to be managed. There are various types of metadata, and it is likely that a ...

8 The OLAC metadata set and controlled vocabularies

Steven Bird, Gary Simons

July 2001 **Proceedings of the ACL 2001 Workshop on Human Language Technology and Knowledge Management - Volume 15**

Publisher: Association for Computational Linguistics

Full text available: pdf(104.59 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

As language data and associated technologies proliferate and as the language resources community rapidly expands, it has become difficult to locate and reuse existing resources. Are there any lexical resources for such-and-such a language? What tool can work with transcripts in this particular format? What is a good format to use for linguistic data of this type? Questions like these dominate many mailing lists, since web search engines are an unreliable way to find language resources. This pape ...

9 2b---Hypertext Systems: Its about time: link streams as continuous metadata

Kevin R. Page, Don Cruickshank, David De Roure

September 2001 **Proceedings of the twelfth ACM conference on Hypertext and Hypermedia HYPERTEXT '01**

Publisher: ACM Press

Full text available: pdf(289.08 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

As enabling technologies become available there is an increasing use of temporal media streams, such as audio and video, within a hypertext context. In this paper we present the rationale and requirements for delivering continuous metadata alongside the media stream, and focus on linking as our case study. We consider the mechanism for delivery of the metadata across a distributed system, the format and content of the metadata flow itself, and the presentation of the media and augmenting meta ...

Keywords: metadata, open hypermedia, streamed media, temporal linking

10 Student tracking and personalization: Personalization in distributed e-learning environments

Peter Dolog, Nicola Henze, Wolfgang Nejdl, Michael Sintek

May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters WWW Alt. '04**

Publisher: ACM Press

Full text available: pdf(328.49 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Personalized support for learners becomes even more important, when e-Learning takes place in open and dynamic learning and information networks. This paper shows how to realize personalized learning support in distributed learning environments based on Semantic Web technologies. Our approach fills the existing gap between current adaptive educational systems with well-established personalization functionality, and open, dynamic learning repository networks. We propose a service-based architectu ...

Keywords: P2P, adaptation, learning repositories, ontologies, personalization, standards, web services

11 Capturing attention metadata: The SemDAV project: metadata management for unstructured content

Bernhard Schandl, Ross King

November 2006 **Proceedings of the 1st international workshop on Contextualized attention metadata: collecting, managing and exploiting of rich usage information CAMA '06**

Publisher: ACM Press

Full text available: pdf(192.50 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Despite the evolution of complex storage facilities for different application domains (e.g. multimedia-enabled databases, or RDF triple stores), the file system is still the major repository paradigm for unstructured content that is created, stored and managed by end-users. Many desktop file systems support the addition of metadata to files, but there exists no platform-independent agreement on how to retrieve and manage metadata, be it in a user's private storage or in shared data repositories. ...

Keywords: WebDAV, attention metadata, metadata storage and management, network file-system protocol

12 A formal framework for component deployment

Yu David Liu, Scott F. Smith

October 2006 **ACM SIGPLAN Notices , Proceedings of the 21st annual ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications OOPSLA '06**, Volume 41 Issue 10

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Full text available: pdf(592.54 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Software deployment is a complex process, and industrial-strength frameworks such as .NET, Java, and CORBA all provide explicit support for component deployment. However, these frameworks are not built around fundamental principles as much as they are engineering efforts closely tied to particulars of the respective systems. Here we aim to elucidate the fundamental principles of software deployment, in a platform-independent manner. Issues that need to be addressed include deployment unit design ...

Keywords: component, deployment, version

13 Prefetch injection based on hardware monitoring and object metadata

Ali-Reza Adl-Tabatabai, Richard L. Hudson, Mauricio J. Serrano, Sreenivas Subramoney

June 2004 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2004 conference on Programming language design and implementation PLDI '04**, Volume 39 Issue 6

Publisher: ACM Press

Full text available: pdf(288.00 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Cache miss stalls hurt performance because of the large gap between memory and processor speeds - for example, the popular server benchmark SPEC JBB2000 spends 45% of its cycles stalled waiting for memory requests on the Itanium® 2 processor. Traversing linked data structures causes a large portion of these stalls. Prefetching for linked data structures remains a major challenge because serial data dependencies between elements in a linked data structure preclude the timely materialization ...

Keywords: cache misses, compiler optimization, garbage collection, prefetching, profile-guided optimization, virtual machines

14 <u>Putting FrameNet data into the ISO linguistic annotation framework</u>
Srinivas Narayanan, Miriam R. L. Petruck, Collin F. Baker, Charles J. Fillmore
July 2003 **Proceedings of the ACL 2003 workshop on Linguistic annotation: getting the model right - Volume 19**
Publisher: Association for Computational Linguistics
Full text available: pdf(95.26 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

This paper describes FrameNet (Lowe et al., 1997; Baker et al., 1998; Fillmore et al., 2002), an online lexical resource for English based on the principles of frame semantics (Fillmore, 1977a; Fillmore, 1982; Fillmore and Atkins, 1992), and considers the FrameNet database in reference to the proposed ISO model for linguistic annotation of language resources (ISO TC37 SC4)(ISO, 2002; Ide and Romary, 2001b). We provide a data category specification for frame semantics and FrameNet annotations in ...

15 <u>Poster: The semantic logger: supporting service building from personal context</u>
Mischa M Tuffield, Antonis Loizou, David Dupplaw
October 2006 **Proceedings of the 3rd ACM workshop on Continuous archival and retrival of personal experences CARPE '06**
Publisher: ACM Press
Full text available: pdf(216.00 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The Semantic Logger[1] (SL) is presented as a system for the importing, housing, and exploiting of personal information. The system has been implemented using a number of Semantic Web enabling technologies, and attempts to store the information in a manner adhering to as many W3C recommendations as possible. The Semantic Logger's utility is grounded in two context-based applications, namely a recommender system, and a photo-annotation tool.

Keywords: context, lifelogs, memories for life, multimedia, ontologies, photo annotation, recommender systems, semantic logging, semantic web

16 <u>KM-4 (knowledge management): distributed knowledge management: Swoogle: a search and metadata engine for the semantic web</u>
Li Ding, Tim Finin, Anupam Joshi, Rong Pan, R. Scott Cost, Yun Peng, Pavan Reddivari, Vishal Doshi, Joel Sachs
November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04**
Publisher: ACM Press

Full text available: pdf(399.50 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Swoogle is a crawler-based indexing and retrieval system for the Semantic Web. It

extracts metadata for each discovered document, and computes relations between documents. Discovered documents are also indexed by an information retrieval system which can use either character N-Gram or URIrefs as keywords to find relevant documents and to compute the similarity among a set of documents. One of the interesting properties we compute is <i>ontology rank</i>, a measure of the importance of ...

Keywords: crawler, metadata, rank, search, semantic web

17 <u>Hypermedia in the Small: Fluid annotations through open hypermedia: using and extending emerging web standards</u>

Niels Olof Bouvin, Polle T. Zellweger, Kaj Grønbæk, Jock D. Mackinlay

May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**

Publisher: ACM Press

Full text available: 📄 pdf(1.24 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The Fluid Documents project has developed various research prototypes that show that powerful annotation techniques based on animated typographical changes can help readers utilize annotations more effectively. Our recently-developed Fluid Open Hypermedia prototype supports the authoring and browsing of fluid annotations on third-party Web pages. This prototype is an extension of the Arakne Environment, an open hypermedia application that can augment Web pages with externally stored hypermedia s ...

Keywords: RDF, XLink, XPointer, annotations, annotea, fluid documents, web augmentation with open hypermedia

18 <u>Authoring and annotation: WebDAV-based hypertext annotation and trail system</u>

Sunghun Kim, Mark Slater, E. James Whitehead

August 2004 **Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPERTEXT '04**

Publisher: ACM Press

Full text available: 📄 pdf(216.71 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

We introduce a WebDAV-based Hypertext Annotation and Trail System (HATS). HATS provides annotation editing, deleting, searching, and sharing using server side WebDAV capabilities. It supports hyper-trail storage and examination. The paper describes the HATS architecture and WebDAV annotation schema. We compare HATS with existing web annotation systems, and discuss the advantages of using WebDAV as an annotation server.

Keywords: WebDAV, annotations, hyper trail, hypertext

19 <u>Query Language for Semantic Web: EDUTELLA: a P2P networking infrastructure based on RDF</u>

Wolfgang Nejdl, Boris Wolf, Changtao Qu, Stefan Decker, Michael Sintek, Ambjörn Naeve, Mikael Nilsson, Matthias Palmér, Tore Risch

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Publisher: ACM Press

Full text available: 📄 pdf(331.38 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Metadata for the World Wide Web is important, but metadata for Peer-to-Peer (P2P) networks is absolutely crucial. In this paper we discuss the open source project Edutella which builds upon metadata standards defined for the WWW and aims to provide an RDF-based metadata infrastructure for P2P applications, building on the recently announced JXTA Framework. We describe the goals and main services this infrastructure will provide and the architecture to connect Edutella Peers based on exchange of ...

Keywords: e-Learning, peer-to-peer, query languages, semantic web

20 ViSWeb—the Visual Semantic Web: unifying human and machine knowledge representations with Object-Process Methodology

Dov Dori

May 2004 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 13 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(1.22 MB)   Additional Information: full citation, abstract, index terms

The Visual Semantic Web (ViSWeb) is a new paradigm for enhancing the current Semantic Web technology. Based on Object-Process Methodology (OPM), which enables modeling of systems in a single graphic and textual model, ViSWeb provides for representation of knowledge over the Web in a unified way that caters to human perceptions while also being machine processable. The advantages of the ViSWeb approach include equivalent graphic-text knowledge representation, visual navigability, semantic sentenc ...

Keywords: Conceptual graphs, Knowledge representation, Object-Process Methodology, Semantic Web, Visual Semantic Web

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